PATENT COOPERATION TREATY

PCT

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INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER	see Form PCT/ISA/220
	ACTION	as well as, where applicable, item 5 below.
International application No.	International filing date (day/month/ye	ear) (Earliest) Priority Date (day/month/year)
PCT/IB2004/004335	06/12/2004	05/12/2003
Applicant		
UNIVERSITY OF GRONINGEN		
This International Search Report has been according to Article 18. A copy is being tra		ng Authority and is transmitted to the applicant
This International Search Report consists	of a total of sheets	ò.
X It is also accompanied by	a copy of each prior art document cited	l in this report.
Basis of the report		
	international search was carried out on ess otherwise indicated under this item	the basis of the international application in the
The international this Authority (Rul		a translation of the international application furnished to
l —	, ,,	closed in the international application, see Box No. I.
2. Certain claims were four	nd unsearchable (See Box II).	
3. Unity of invention is lack	king (see Box III).	
	,	•
With regard to the title , X the text is approved as suited.	hmitted by the applicant	
1	hed by this Authority to read as follows:	
	·	
5. With regard to the abstract,	•	
X the text is approved as sul	bmitted by the applicant.	
		Authority as it appears in Box No. IV. The applicant all search report, submit comments to this Authority.
With regard to the drawings,		
a. the figure of the drawings to be p	ublished with the abstract is Figure No.	
X as suggested by the	• •	
	s Authority, because the applicant failed s Authority, because this figure better of	•
	s Authority, because this figure better cl e published with the abstract.	iaiacienzes die invendon.

International application No.

	PCT/IB2004/004335
o. I	Nucleotide and/or amino acid sequence(s) (Continuation of item 1.b of the first sheet)
Vith reg	gard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed in, the international search was carried out on the basis of:
. typ	pe of material
X	a sequence listing
Х	table(s) related to the sequence listing
. for	rmat of material
х	in written format
Х	in computer readable form
. tim	ne of filing/furnishing
	contained in the international application as filed
	filed together with the international application in computer readable form
х	furnished subsequently to this Authority for the purpose of search
_	In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been file or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
dditiona	al comments:
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	wentio

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 CO7K14/705 GO6F G06F19/00 According to International Patent Classification (IPC) or to both national classification and IPC Minimum documentation searched (classification system followed by classification symbols) IPC 7 CO7K G06F Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, Sequence Search, CHEM ABS Data, BIOSIS, EMBASE, WPI Data, PAJ C. DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages Category ° Relevant to claim No. X WO 03/029420 A (GENENTECH, INC; KELLEY, 1-62 ROBERT F; LINDSTROM, STEPHANIE H) ✓10 April 2003 (2003-04-10) claim 1 & DATABASE Geneseq 'Online! 4 December 2003 (2003-12-04), "Human Apo-2 ligand protein mutant D234C." retrieved from EBI accession no. GSP: ADB61491 Database accession no. ADB61491 X WO 99/36535 A (GENENTECH, INC: ASHKENAZI. 1-62 AVI, J; KELLEY, ROBERT, F; O'CONNEL, MARK,) 22 July 1999 (1999-07-22) examples 18,19 _/_-Further documents are listed in the continuation of box C. Patent family members are listed in annex. Special categories of cited documents: *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the *A* document defining the general state of the art which is not considered to be of particular relevance *E* earlier document but published on or after the international "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone filing date document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such docu-'O' document referring to an oral disclosure, use, exhibition or other means ments, such combination being obvious to a person skilled document published prior to the international filing date but later than the priority date claimed *&* document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 14 April 2005 02/05/2005 Name and mailing address of the ISA Authorized officer European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Petri, B Fax: (+31-70) 340-3016

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Category Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
	Fisher to Gentli No.
WO 01/00832 A (GENENTECH, INC) 4 January 2001 (2001-01-04) table 1	1-62
WO 88/06625 A (CETUS CORPORATION) 7 September 1988 (1988-09-07) abstract	1-62
WO 2004/001009 A (GENENTECH, INC; HYMOWITZ, SARAH; KELLEY, ROBERT, F; LINDSTROM, STEPHAN) 31 December 2003 (2003-12-31) cited in the application the whole document	1-62
VAN DER SLOOT ALMER M ET AL: "Stabilization of TRAIL, an all-beta-sheet multimeric protein, using computational redesign." PROTEIN ENGINEERING, DESIGN & SELECTION: PEDS. SEP 2004, vol. 17, no. 9, September 2004 (2004-09),	1-62
pages 673-680, XP002324633 ISSN: 1741-0126 the whole document	

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Information on patent family members

International Application No PCT/IB2004/004335

	itent document in search report		Publication date		Patent family member(s)		Publication date
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ľ.				ΕP	1501866	A2	02-02-2005
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				WO	2004001009	A 2	31-12-2003

PCT/IB2004/004335

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C07K14/705 G06F19/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

 $\begin{array}{ll} \mbox{Minimum documentation searched (classification system followed by classification symbols)} \\ \mbox{IPC 7} & \mbox{C07K} & \mbox{G06F} \end{array}$

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, Sequence Search, CHEM ABS Data, BIOSIS, EMBASE, WPI Data, PAJ

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 03/029420 A (GENENTECH, INC; KELLEY, ROBERT F; LINDSTROM, STEPHANIE H) 10 April 2003 (2003-04-10) claim 1 & DATABASE Geneseq 'Online! 4 December 2003 (2003-12-04), "Human Apo-2 ligand protein mutant D234C." retrieved from EBI accession no. GSP:ADB61491 Database accession no. ADB61491	1-62
X	WO 99/36535 A (GENENTECH, INC; ASHKENAZI, AVI, J; KELLEY, ROBERT, F; O'CONNEL, MARK,) 22 July 1999 (1999-07-22) examples 18,19	1-62

Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
Special categories of cited documents: 'A' document defining the general state of the art which is not considered to be of particular relevance 'E' earlier document but published on or after the international filing date 'L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) 'O' document referring to an oral disclosure, use, exhibition or other means 'P' document published prior to the International filing date but later than the priority date claimed	 'T' tater document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention 'X' document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone 'Y' document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. '&' document member of the same patent family
Date of the actual completion of the international search	Date of mailing of the international search report
14 April 2005	02/05/2005
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk	Authorized officer
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Petri, B

PCT/IB2004/004335

C.(Continu	etion) DOCUMENTS CONSIDERED TO BE RELEVANT	 *
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 01/00832 A (GENENTECH, INC) 4 January 2001 (2001-01-04) table 1	1-62
X	WO 88/06625 A (CETUS CORPORATION) 7 September 1988 (1988-09-07) abstract	1-62
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P,X	VAN DER SLOOT ALMER M ET AL: "Stabilization of TRAIL, an all-beta-sheet multimeric protein, using computational redesign." PROTEIN ENGINEERING, DESIGN & SELECTION: PEDS. SEP 2004, vol. 17, no. 9, September 2004 (2004-09), pages 673-680, XP002324633 ISSN: 1741-0126 the whole document	1-62

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			NZ	515990	• •	31-10-2003
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